

**Supplemental Table S6.** Allele Frequencies of HLA-DQA1 in Patients with ICI-T1DM

Allele	ICI-T1DM ( <i>n</i> =14)			ICI-controls ( <i>n</i> =26)			Controls ( <i>n</i> =1,536) <sup>a</sup>	ICI-T1DM vs. ICI-controls	ICI-controls vs. controls
	Number	F, %	<i>P</i> value <sup>b</sup>	Number	F, %	<i>P</i> value <sup>b</sup>	F, %	<i>P</i> value <sup>b</sup>	<i>P</i> value <sup>b</sup>
DQA1*01:01	0	0.0	NS	2	7.7	NS	6.61	NS	NS
DQA1*01:02	0	0.0	NS	7	26.9	NS	13.41	NS	NS
DQA1*01:03	3	21.4	NS	3	11.5	NS	19.17	NS	NS
DQA1*01:04	1	7.1	NS	0	0.0	NS	4.69	NS	NS
DQA1*03:01	2	14.3	NS	4	15.4	NS	11.07	NS	NS
DQA1*03:02	2	14.3	NS	5	19.2	NS	14.42	NS	NS
DQA1*03:03	5	35.7	NS	5	19.2	NS	16.50	NS	NS
DQA1*04:01	0	0.0	NS	0	0.0	NS	2.83	NS	NS
DQA1*05:05	1	7.1	NS	0	0.0	NS	4.43	NS	NS
DQA1*06:01	0	0.0	NS	0	0.0	NS	2.02	NS	NS
Others	0	0.0	NS	0	0.0	NS	4.85	NS	NS
Total	14	100.00		26	100.00		100.00		

Alleles with frequencies more than 1.0% in controls were included to the analysis (10 alleles).

HLA-DQA1, human leukocyte antigen DQA1; ICI-T1DM, immune-checkpoint inhibitor-induced type 1 diabetes mellitus; F, frequency of the allele; NS, not significant.

<sup>a</sup>Control subjects: Japanese Society for Histocompatibility and Immunogenetics (<http://jshi.umin.ac.jp/standardization/file/JSHI-hyokiallele-2021list.pdf>) (JSHI2021) [10]; <sup>b</sup>The association of haplotype frequencies with each disease was analyzed using Fisher's exact test with 2×2 contingency tables.